

FOUR "COUNTS OF MONTE CRISTO" AND U. S. HAS MONOPOLY ON HELIUM, ONE OF THE GREAT TRADE OUTLOOK OF MARSEILLE THE GREATEST SCIENTIFIC DISCOVERIES

Sterling Heilig Interviews Men Who Claim to Belong to the Dantes Family of Fiction—The President Wilson Docks and Prospect for Trade With America—What the War Did for French Port.

BY STERLING HEILIG.

MARSEILLE, February 3, 1921.
N. MARSEILLE harbor Edmond Dantes escaped from the Chateau d'If and exclaimed: "The world is mine!"

Every visitor takes the boat trip to the island fortress to see where the innocent youth, unjustly imprisoned for years (in fiction), met the Abbe Faria, tunneling his way out. The future Count of Monte Cristo joined the clandestine digging, received a first-class education in the slow, day-by-day work of the prison, and finally, the dying abbe's secret of the Borgia billions.

To the guides it is all real. This smooth stone was the good abbe's blackboard; at this small window he taught Edmond navigation by the stars. Here is where the government walled up the tunnel, and it was from this platform that Edmond Dantes, substituting himself for the dead body of his friend, was heaved into the Mediterranean. Ripping himself free from the sack, he swam, was picked up by a fisherman and finally maneuvered to be left alone on the uninhabited island where the fabulous fortune in jewels and gold was hidden. After years of privations and patience, "the world is mine!" he said.

There are four men in Marseille who claim to be descended from the Dantes family (which never existed), and dispute which of them is the Count of Monte Cristo. But there are a million or thereabouts of the Marseille population who are convinced that the world is theirs—if America would only let them have it. The situation is really simple. After years of privations and patience through a bad war, Marseille sees herself linked up magnificently with America—in twenty years, without fail, if not now. But she wants it now.

Marseille has direct steamship connection with the United States, with handsome passenger ships to New York and Providence, R. I. These considerations have led to the brand-new organization of a similar Marseille line to Canada—and Marseille is convinced that she has the grand situation of French transatlantic passenger ports (with the beautiful tourist trips up from the south of France), if only—but—in case.

The United States may stop emigration at the time when the growing lines of Marseille need emigrants.



THE FOUR MEN OF MARSEILLE WHO CLAIM TO BE DESCENDED FROM THE DANTES FAMILY OF FICTION. THEY DISPUTE AS TO WHO IS THE "COUNT OF MONTE CRISTO."

getting a good share of this business and keeping it quiet. They will pump from the tank steamers to a distributing point a few miles back from the quays. The work is nearly finished and Marseille will have the first pipe line in France—the other, from Paris to Havre, will not be finished for two years. Furthermore, these Pinede docks are fuel oil docks. The stuff is arriving and looms large. They go back in ballast," worries Pascal, "but coal boats ought not to go back empty—it is not good business. Marseille is getting a lot of French money, and is connected to France and is thankful to get it. Our chamber of commerce offered Exalté (aluminum ore) and ochre (for yellow paint) in bulk for the return trips of the coal ships, but I'll tell you something secretly, they are carrying back Algerian iron ore to America, for its richness in manganese. I could not have learned it from Marseille officials, and am coming by ramifications with all the business of the port.

Pascal's son, the contractor, owns a strip of real estate along the Etang de Berre. It is just where the big story comes in.

There are billions of dollars in it," says Pascal, whose aviatism makes him see big. "Billions for America and billions for Marseille. There is no other situation like it for American manufacturers—the free zone of Marseille, when it becomes legally organized."

The Etang is an inland sea, practically touching Marseille's suburbs. It is fully deep enough for big ocean cargo boats—in fact, it is a full of the Mediterranean, whose entrance silted shut long ago. Its shores are vast dock space, with deep water to the very edges, with any quantity of vacant land for American manufacturers to set up manufacturing plants when the land around the Etang shall become the promised free zone.

"Hamburg didn't," exclaimed Pascal, "and Marseille will do it, in spite of the opposition of a lot of sardine fishers and wine growers, who claim that the port will be ruined. We want to get fraudulently labeled French in such a zone, to the detriment of the French market. And those manufacturers of north France, they're coming to see that, as competition cannot be won, it is to be framed in close enough to profit France and keep France posted up to date. Look to the lion's share, fair! It's the first step to the free zone. Aren't we smart enough to protect ourselves against fraud on our own land?"

Marseille is the natural stopping

from the Mediterranean to this inland sea of the Etang. It will be a ship canal three feet deep to the cargo boats up to 12,000 tons dead weight. Of course, it will open vast new dock space.

Big barges already enter the Etang, direct to Marseille by the famous Rove tunnel, completed in 1918, and up into all France by the Rove canal, of already thirteen draught, to the navigable River Rhone, the waterways of central Europe. Barges of 1,200 tons dead-weight capacity pass each other contentedly in both directions. It is the cheapest possible inland transportation, practically unlimited.

"That inland sea," says Edmond, "it's a suburb of Marseille!"

"The world is ours!" takes up Henri Radoub, who looks to me like the true Monte Cristo. "Marseille, today, has twelve miles of utilizable quays and nearly forty miles of port railroads. 'Leon, tell the gentlemen how many distinct ocean steamship lines Marseille possesses.'"

The fourth claimant scratches his chin. He resembles an Irishman, but is more mild of the Rhone. "One hundred and eleven lines," he answers tranquilly.

Citizens of Marseille have a reputation for exaggeration to improve their stories. So I looked up Leon's statement, as I have done for all the others. He underestimates. In the latest bulletin of the port, twenty printed pages of departures and arrivals. I count one hundred and twenty-seven ocean steamship lines. All, of course, are not owned or controlled in Marseille, but their boats are periodically bound for, enter and quit the port on their regular business.

Before the war Marseille received twenty-one million tons of shipping and ten million tons of merchandise. This year she ran close to her pre-war figure, toward the eight million tons of merchandise.

"We don't want to emigrate; we want to do business," says Edmond the speaker for Marseille. "We are plain men. Tell this to the plain men of America—France does not want to dump her undesirable on America—France has no undesirable. We want simply to see commerce flourish and pay off our debt. We shall never leave France, nor will we leave America. We know them and appreciate them."

They know all about the proposed legislation which would protect American ships to such a point (they think) that the United States would be the new lines which Marseille is fostering.

"American ships would come to

do they want in return—paper money? It seems to me that they had better accept goods. Marseille means Europe, the Levant, the orient and Africa. Tut, tut! The world is ours—and yours!"

The Secrets of a Fortune Teller

BY RACHEL MACK.

MYBBE you'll be surprised to know I'm not always prophetic and the June bride idea and applauding the sweet strains of the wedding march. Just to prove it, I'll tell you about an incident that happened some years ago.

A young girl registered about twenty-four summers hurries into the studio for a consultation. While not beautiful, she's pleasant to look at and neat to the last hook. She has that homelike personality that makes you feel comfortable—one of the sort who could make a piano box seem like home, sweet home.

"I do," she answers; "I must make a decision, and I need help." "Well," I announce, "I'll read you a run up the periscope and give you a peep at the breakers ahead. What's the question that's cutting down your sleep?"

"I can't decide," she answers, "whether or not to marry. For a month I've been fighting it out in my mind, and I haven't found the answer yet."

"The mind's not exactly the customary place to think this marriage question out," I say, "but I'll consider the proper location. Something's wrong. Let's consult the occult."

SHE gives me her hand, which is large and firm and rather practical. Of course, I lend an eye to the love lines first, expecting to see a couple of them cutting deep through the mount at the base of the little finger. But I find among the misty when I find them among the misty.

"Girle," I ask, "did I understand you to say that you loved two men and couldn't pick the heavy party?" "No," she says, very emphatic, "you did not. I said I could not decide which of two I loved. I wasn't wasn't any mention of love in the statement."

"Reg'rdon," I say, "my mistake! The truth is, somebody's trying to shove you off the hook. What?" "Well," she says, "you might explain it that way. I've been brought up with the idea that a woman must marry before she's twenty-five. But she doesn't share a failure. I'm trying to live up to the family slogan and stop off before the fatal day." I suggest, "Any preference between the two willing victims?"

"Hardly any," she smiles, showing a sense of humor not dead yet. "One of them is a kind-hearted ship pin clerk and the other is a fat dentist."

"And neither one of them, I put in, 'thrills you any more than a cold potato'?" "Perfectly true," she agrees. "I can't decide which face will look the most monotonous 365 morrins in the year on the other side of the perculator."

"And there's a kind-hearted ship pin clerk and the other is a fat dentist. Every leap year," I say, "But, seriously, why under the sun should you marry either of them?" "Well," she says, "you might say it's up to me. My parents have spent all they can afford on me, and there are three young men waiting to step into my shoes. Understand?"

"I know it," I say. "A woman takes a man, and he takes her, and as contented as a cat on a cushion on the equator, and you wonder the lines again. Let's examine the lines again."

I BEGIN to study her hands in earnest, because I see it's a question of choosing a career and launchin' a lady out on the sea of success. If she means to be a ship pin clerk, instead of their mirror, then her hands go the cross-roads there would be no mistake to weep over.

"You're not bookish, are you?" "And you're not musical. I'm also certain that you wouldn't make a second-rate stenographer."

"Right," she agrees. "I've got fore-sight enough to know that I'd never make a private secretary in fifty years."

NE hears more about "helium" these days than about that exceedingly scarce article known as "radium." Most every one knows all about radium, but comparatively few know anything at all about helium. This, too, despite the fact that at the present time it is one of the most discussed subjects in the bureau of mines of the Interior Department, Army and Navy circles, the air service and the halls of Congress.

The other day Representative "Dick" Elliott of Indiana, surrounded by a group of friends, was earnestly expatiating on the value of helium to this country, when the writer interrupted with: "What is this helium stuff you are talking about? I'm willing to bite."

"Well," replied Elliott, "as near as I can figure out the thing, it's just plain hydrogen with a 'hel' taken out. Or, to put it another way, it's like liquor or beer with the kick extracted—harmless. The use of helium in dirigibles and all other kinds of balloons traveling as safe as a snoodle in a haystack. Before helium came into use a single bullet might cause a dirigible to explode and crash to the earth, a blazing wreck. You can no more burn or explode helium than you can light or explode the atmosphere of a town, unless a lighted match out of the window."

"The bureau of mines has been working on the development of helium for a number of years, and the best way to find out all about the details of it is to go down there and talk to those scientific gentlemen."

A VISIT to that branch of the federal governmental establishment, the bureau of mines, the wisdom of Representative Elliott's suggestion. According to Dr. Richard B. Moore of the bureau, the United States is the

LIELIUM is extracted from natural gas.

It will neither burn nor explode.

The United States has a monopoly on its production.

It makes travel by dirigible far less dangerous.

It is compressed and carried safely.

It was a war-time invention, but is useful in peace times.

The greatest production plant is located in Texas.

dirigibles during the war, informed me that it had not been for the German dirigibles he had no doubt but the British fleet would have caught and destroyed the German fleet.

"The French and British had no dirigibles at the start of the war, but later made haste as rapidly as possible to repair the deficiency. They recognized, however, on account of their experience gained from the defense of London and other important points in England that the dirigible was not only vulnerable, but extremely so against a well-organized attack. The Germans recognized this, and therefore, in order to make their attacks on England at night and operated from a high altitude in order to minimize attacks by airplanes, for a single incendiary bullet fired into a dirigible would probably bring the huge ship

down within a few moments a mass of flames. The inflammability of the hydrogen was the one weak spot in this method of attack, and the British recognized this quite early in the war. In addition, the constant danger of such a death had a strong effect on the nerves of the operating crews, so that, perhaps, the dirigibles were not as efficient as they otherwise might have been."

"The answer, of course, was a non-inflammable gas sufficiently light to take the place of hydrogen as a lifting force. There is only one gas known which has these qualities—namely, helium."

"Helium was found in the atmosphere to the extent of one part in 185,000 by volume. It is found in gases from springs, but in the case of the latter it is not in sufficient quantity to be of any use. The stages of the war neither the French nor British seemed to have any knowledge of helium, and it was not until the summer of 1917 that it was discovered that it was sufficient for the purpose outlined."

"On February 28, 1915, Sir William Ramsay wrote a personal letter to me from London, in which, among other things, he said: 'I have investigated blowers, that is, coal-damp blowers, for helium. There does not appear to be anything in the English blowers, but I am getting samples from Canada and the States.'"

"He then proceeded to state that personally he did not feel that the idea was at all practical, and also expressed his opinion that owing to the fact that airplanes could operate successfully against dirigibles, their use was not as important as the admiralty seemed to regard it. At the time this letter was received, I was fully aware of the work of Cady and McFarland of the University of Kansas on natural gases of Kansas and their incidental discovery of helium therein, although Ramsay and the British scientists were apparently not cognizant of this work. It was, therefore, a question of whether I should or should not inform Ramsay and the British government concerning this work of Cady and McFarland. At the time all government officials were being strongly urged by frequent communications to remain neutral in every sense of the word, and after several weeks of deliberation I decided not to inform Sir William of the discovery of helium in the United States, and it was not until the summer of 1917 that I was asked to question for individual judgment. There is no question, however, that if the matter had been taken up at that time, the history of the war might have been changed to a considerable extent."

In April, 1917, I attended a meeting of the American Chemical Society in Kansas City, Mo., where a paper on the presence of rare gases in certain natural gases of Kansas was presented by Dr. C. W. Seibel of the University of Kansas, who had worked under Dr. Cady. Following this paper, in the open discussion, I mentioned the possible use of helium in dirigibles and advocated that the matter be taken up seriously. J. A. Burrell, of the bureau of mines had a short time before this learned of the interest of the British in helium and had also recognized the possibilities of the natural gases of Kansas as a source of supply. In the following June, and it is due to the interest of these men and Col. Charles D. Chandler, in charge of the balloon division of the Army, the matter was taken up immediately showed great interest in the project. Col. Chandler deserves great credit for his broad-mindedness and foresight in connection with this whole work. The matter was also brought to the attention of the Navy and the Army, and they became also intensely interested. Commanders A. K. Atkins and H. T. Meyer and G. O. Carter represented the Navy, and it is due to the interest of these men and Col. Chandler that the necessary funds were ultimately made available and the helium project was actually made possible. The importance of the production of helium as a war measure seemed considerable in

be necessary to start where the other work left off, owing to the fact that the gas to be treated would contain not more than 1 per cent of helium. The undertaking, therefore, was an extremely difficult one.

"FOR this reason it was decided to use three processes, hoping that one, at least, would solve the problem quickly and efficiently. The time here were two commercial companies in this country making oxygen from liquid air—namely, the Air Reduction Company of New York, using the Claude process, and the Linde Air Products Company of New York, using the Linde process. In addition, the bureau of mines had been in touch with F. E. Norton, who had a process which could be applied to this work, called the Jeffries-Norton process."

"Funds were appropriated for the bureau of mines for the reaction of three experimental plants representing above. Two of these plants (the air reduction and the Linde) were placed at Fort Worth and the third (Jeffries-Norton) was located at Petrolia, Tex. The reason for this location was that the bureau of mines, making a quick survey, had found that the natural gas in the Petrolia, Tex., field contained 33 per cent helium. In addition, the volume of the gas was reasonably large, since it was possible at the time in question to pump as much as fifteen million cubic feet of gas per day from the wells. This gas was piped to Fort Worth, Dallas and other towns and was used in the production of helium by the Lone Star Gas Company of Fort Worth and Dallas to use this gas from the main pipe line and allow the return of the processed gas after the helium had been extracted to the pipe lines of the company going to Fort Worth and Dallas. This meant that the government would only have to pay for the actual loss of gas during the processing."

"At the time of the armistice 147,000,000 cubic feet of helium were produced, 93 per cent, was on the dock ready to be loaded for Europe. This gas had been obtained during the experiment, and the other 54,000,000 cubic feet of helium was produced by plants 1 and 2."

"Owing to the better results obtained by plant 1, it was decided by the Army and Navy that a large production plant should be built based upon the equipment and operation of plant 1. This in mind, it was thought advisable to stop the experimental work in connection with plants 1 and 2, and, therefore, on January 23, 1919, the two plants were shut down. A large production plant has since that time been slowly but steadily going up, and on January 1, 1920, was nearly ready to begin regular operation. This plant involves an expenditure of about two million dollars for both buildings and equipment. It was constructed under the direction of the bureau of yards and docks and will be operated under supervision of the bureau of steam engineering. The plant will produce five units, five of which are operative, and one is to be retained as a spare. Each unit is designed to handle approximately 44,000 cubic feet of natural gas per hour, which gives an approximate total per day of five million cubic feet."

"How do you propose storing your helium until such time as it is needed for war or commercial purposes?" was the next question asked. The answer was that the government has at Fort Worth about one hundred thousand cylinders, holding approximately two hundred cubic feet each. The value of these cylinders is over two million dollars, and the upkeep is considerable. Serious consideration is being given to the question of the production of helium as a war measure, and it is believed that the production of helium as a war measure will be a very important one."

"It has been suggested by J. O. Lewis and G. S. Rice of the bureau of mines that helium might be stored after extraction in concrete chambers in mines. The suggestion is to build a chamber in a drift, with reinforced concrete ends and a manhole, the whole to be lined with sheet copper, and the fusion of the gas through the concrete. The gas would be stored under a pressure of 400 or 500 pounds and would be the drift would take most of this pressure so that the thickness of the concrete would not be so great. The drift would be required for getting a smooth surface for the copper sheeting."

"A gas location probably would be in the St. Peter's sandstone in the Mississippi valley, where the sandstone outcrops at the surface, and a long tunnel could be driven into the sandstone at the proper diameter and length. Under such conditions, a chamber 400 or 500 feet long and six or eight feet in diameter might be constructed and lined with copper or sheet lead. It is estimated that the cost of such storage per annum might be as low as from one-tenth to one-fifth of a cent per cubic foot. It has also been suggested that helium might be stored in some of the salt deposits of New York. In this state some of the rock salt deposits are being used for the storage of helium, and it is expected that the practicability of this method can be determined shortly."

"One of the big problems confronting the Army and Navy and bureau of mines at present is the future disposition of the valuable helium plants in Texas. Obviously, these men want to store the gas in the experimental mines of the Pittsburgh station of the bureau, and it is expected that the practicability of this method can be determined shortly."

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THE PORT OF MARSEILLE, SHOWING WHERE THE PRESIDENT WILSON DOCKS BEGIN ON THE LEFT.

grants to carry. "Every line needs emigrants," they admit anxiously. "But not French emigrants—oh, no! The line now carries Portuguese and Italians. The transports carry Syrians, now being steered to South America, and of whom it is said that 2,000,000 want to emigrate."

They pass Marseille and feed Marseille prosperity by building up her passenger lines. But Frenchmen do not emigrate. None of the 25,000,000 Europeans and Levantines who threaten to overflow America are French.

"We are too well off in France," says Edmond Dantes, my friend of the Marseille water front, who claims to be the Count of Monte Cristo. "If I had his rights, 'if I should consent to emigrate—L. Edmond Dantes, French citizen, French government would settle me as a colon in Algiers, with fruit farm, truck farm, vineyards, pheasants, flocks of sheep and pigs to make hams, and flowers to make perfumes.'"

"Alciers," he points beyond the shipping, "is just a short trip over there, across our Mediterranean. I could come home once a month on visits."

place for American trade to the central Europe—not to mention the orient and Africa! Think of the barge, railroad and trans-shipping freights it can give France. Think of the French labor and materials that will be mixed with American merchandise in a Marseille free zone."

Such "finishing" in France of partly manufactured American goods was a great argument before those men. The Marseille dockers earned 6 francs per day—now they get 24 francs. Skilled workmen make 8 to 12 francs a day, but they are still "French wages," low to Americans, and the same is true for French materials. A tempting proposition to American manufacturers seeking an outlet in Europe and the Levant.

"You'll bring your goods into Marseille free zone duty free," promises Edmond Dantes, "and find cheap land in it to set up your warehouses and plants. Here your goods can be cheaply awaiting market—not in far away America. In the zone they can be inspected, regrouped or modified to meet local requirements, and all ready for quick shipment in bond as any European country when a sale is made. You pay French duties on any such goods sold in France—but only when you sell. In fact, there's no other combination like it."

MARSEILLE Chamber of Commerce seems to believe in the zone. It is a governing body, collecting vast revenues, and, bonding them with the Credit Foncier as security for vast loans, it has been enlarging the port of Marseille all through the war.

The President Wilson docks are its latest completed work, spacious, in magnificent deep water, and now, by a decision last week, they are to be left in honor as "the latest," and all funds, for the next seven years, be expended on the extensive ship canal

Marseille just the same," I answered, "and more and more." "Yes, but there's business for all. We, not shipping you olive oil, nuts, onions, and ground nut oil from Africa and soap—big Marseille industry. We send, for soap-making and other uses."

"A misery," interposes Henri Radoub, "import your silks and cotton from